



ELSEVIER

Available online at www.sciencedirect.com

SCIENCE @ DIRECT®

LINEAR ALGEBRA
AND ITS
APPLICATIONS

Linear Algebra and its Applications 380 (2004) 281–297

www.elsevier.com/locate/laa

Author index to volumes 361–380

- Ábrego, B.M., S. Fernández-Merchant, M.G. Neubauer and W. Watkins, D-optimal weighing designs for $n \equiv -1 \pmod{4}$ objects and a large number of weighings 374 (2003) 175
- Absil, P.-A., *see* Mahony, R. 368 (2003) 343
- Accettella, C.J., G.M. Del Corso and G. Manzini, Inversion of two level circulant matrices over \mathbb{Z}_p 366 (2003) 5
- Adkins, W.A. and M.G. Davidson, The Cayley–Hamilton and Frobenius theorems via the Laplace transform 371 (2003) 147
- Ahmadi, M.H., J.-H. Baek and S.-G. Hwang, Permanents of doubly stochastic trees 370 (2003) 15
- Aigner, M. and H. van der Holst, Interlace polynomials 377 (2004) 11
- Akbari, S., H.-R. Fanaï and K. Mahmoudian, On the matrices with constant determinant and permanent over roots of unity 375 (2003) 245
- Alam, R. and S. Bora, Effect of linear perturbation on spectra of matrices 368 (2003) 329
- Alam, R. and S. Bora, Stability of eigenvalues and spectral decompositions under linear perturbation 364 (2003) 189
- Alfakih, A.Y., On the uniqueness of Euclidean distance matrix completions 370 (2003) 1
- Alpay, D. and C. Dubi, Backward shift operator and finite dimensional de Branges–Rovnyak spaces in the ball 371 (2003) 277
- Alpay, D., T. Azizov, A. Dijksma and H. Langer, The Schur algorithm for generalized Schur functions III: J -unitary matrix polynomials on the circle 369 (2003) 113
- Amparan, A., S. Marcaida and I. Zaballa, Assignment of infinite structure to an open-loop system 379 (2004) 249
- Ando, T., Cones and norms in the tensor product of matrix spaces 379 (2004) 3
- Ando, T. and T. Yamazaki, The iterated Aluthge transforms of a 2-by-2 matrix converge 375 (2003) 299
- Araújo, C.M., J.R. Torregrosa and A.M. Urbano, N -matrix completion problem 372 (2003) 111
- Arlinskii, Yu.M. and A.B. Popov, On sectorial matrices 370 (2003) 133
- Arndt, H., On finite dimension exchange algorithms 380 (2004) 73
- Arregi, J.M., *see* Vera-López, A. 370 (2003) 85
- Atzmon, A. and A. Pinkus, Rank restricting functions 372 (2003) 305
- Aujla, J.S. and F.C. Silva, Weak majorization inequalities and convex functions 369 (2003) 217
- Avrachenkov, K.E. and M. Haviv, Perturbation of null spaces with application to the eigenvalue problem and generalized inverses 369 (2003) 1
- Azizov, T., *see* Alpay, D. 369 (2003) 113
- Baek, J.-H., *see* Ahmadi, M.H. 370 (2003) 15
- Bahturin, Yu.A. and V. Drensky, Identities of bilinear mappings and graded polynomial identities of matrices 369 (2003) 95
- Bai, F., *see* Liang, H. 377 (2004) 291
- Bai, H., On the critical group of the n -cube 369 (2003) 251
- Bai, Z.-Z. and C.-L. Wang, Convergence theorems for parallel multisplitting two-stage iterative methods for mildly nonlinear systems 362 (2003) 237
- Bai, Z.-Z., *see* Ng, M.K. 366 (2003) 317
- Baksalary, J.K., O.M. Baksalary and X. Liu, Further properties of the star, left-star, right-star, and minus partial orderings 375 (2003) 83
- Baksalary, J.K., O.M. Baksalary and X. Liu, Further relationships between certain partial orders of matrices and their squares 375 (2003) 171
- Baksalary, J.K., O.M. Baksalary and T. Szulc, Properties of Schur complements in partitioned idempotent matrices 379 (2004) 303
- Baksalary, J.K., O.M. Baksalary and G. Trenkler, A revisit of formulae for the Moore–Penrose inverse of modified matrices 372 (2003) 207
- Baksalary, J.K., J. Hauke, X. Liu and S. Liu, Relationships between partial orders of matrices and their powers 379 (2004) 277

Elsevier Inc.

doi:10.1016/S0024-3795(04)00021-7

- Baksalary, O.M., *see* Baksalary, J.K. 372 (2003) 207
- Baksalary, O.M., *see* Baksalary, J.K. 375 (2003) 83
- Baksalary, O.M., *see* Baksalary, J.K. 375 (2003) 171
- Baksalary, O.M., *see* Baksalary, J.K. 379 (2004) 303
- Balser, W., Linear systems with nilpotent leading term 369 (2003) 145
- Banks, W., A. Harcharras, S. Neuwirth and E. Ricard, Matrix inequalities with applications to the theory of iterated kernels 362 (2003) 275
- Bapat, R.B., Outer inverses: Jacobi type identities and nullities of submatrices 361 (2003) 107
- Bapat, R.B., Perron eigenvector of the Tsetlin matrix 363 (2003) 3
- Bapat, R.B., S.K. Jain and J. Tynan, Decomposition of generalized polynomial symmetric matrices 376 (2004) 69
- Bapat, R.B., R. Kaashoek, R. Mathias, T.Y. Tam and F. Uhlig, Preface 379 (2004) 1
- Baragaña, I., V. Fernández and I. Zaballa, Hermite indices and equivalence relations 379 (2004) 201
- Barioli, F. and A. Berman, The maximal cp-rank of rank k completely positive matrices 363 (2003) 17
- Barioli, F., C. De Vivo and C. Metelli, On vector spaces with distinguished subspaces and redundant base 374 (2003) 107
- Barrett, W. and S. Pierce, Null spaces of correlation matrices 368 (2003) 129
- Bauch, M.J., Another algorithm for nonnegative matrices 365 (2003) 3
- Bazán, F.S.V., Error analysis of signal zeros: a projected companion matrix approach 369 (2003) 153
- Beasley, L.B. and S. Kirkland, A note on k -primitive directed graphs 373 (2003) 67
- Beasley, L.B., S.-G. Lee and Y.-H. Lee, A characterization of strong preservers of matrix majorization 367 (2003) 341
- Bebiano, N., J. da Providência Jr. and R. Lemos, Matrix inequalities in statistical mechanics 376 (2004) 265
- Belitskii, G.R. and V.V. Sergeichuk, Complexity of matrix problems 361 (2003) 203
- Bell, F.K. and S.K. Simić, On graphs whose star complement for -2 is a path or a cycle 377 (2004) 249
- Bender, J. and K. Bongartz, Minimal singularities in orbit closures of matrix pencils 365 (2003) 13
- Benito, P., C. Draper and A. Elduque, Models of the octonions and G_2 371 (2003) 333
- Ben Taher, R. and M. Rachidi, On the matrix powers and exponential by the r -generalized Fibonacci sequences methods: the companion matrix case 370 (2003) 341
- Berman, A., L. Elsner, M. Goldberg and R. Loewy, Preface 361 (2003) 1
- Berman, A., *see* Barioli, F. 363 (2003) 17
- Bermúdez, J.M.A. and R. Campoamor, Completable filiform Lie algebras 367 (2003) 185
- Bermúdez, J.M.A. and R. Campoamor, On characteristically nilpotent Lie algebras of type Q 367 (2003) 193
- Bertram, W., From linear algebra via affine algebra to projective algebra 378 (2004) 109
- Bessenrodt, C., M.R. Pournaki and A. Reifegerste, A note on the orthogonal basis of a certain full symmetry class of tensors 370 (2003) 369
- Bhatia, R., On the exponential metric increasing property 375 (2003) 211
- Bhatia, R., Partial traces and entropy inequalities 370 (2003) 125
- Bhaya, A., E. Kaszkurewicz and R. Santos, Characterizations of classes of stable matrices 374 (2003) 159
- Bini, D.A. and A. Böttcher, Polynomial factorization through Toeplitz matrix computations 366 (2003) 25
- Bini, D.A., G. Heinig and E. Tyrtyshnikov, Preface 366 (2003) 1
- Bini, D.A., G. Latouche and B. Meini, Solving nonlinear matrix equations arising in Tree-Like stochastic processes 366 (2003) 39
- Blanes, S. and F. Casas, On the convergence and optimization of the Baker–Campbell–Hausdorff formula 378 (2004) 135
- Bochi, J., Inequalities for numerical invariants of sets of matrices 368 (2003) 71
- Bocklandt, R., Symmetric quiver settings with a regular ring of invariants 365 (2003) 25
- Bolla, M., Distribution of the eigenvalues of random block-matrices 377 (2004) 219
- Bolotnikov, V., A. Kheifets and L. Rodman, Pairs of functions with indefinite Pick matrices 367 (2003) 271
- Bondarenko, V.M., Linear operators on S -graded vector spaces 365 (2003) 45
- Bongartz, K., *see* Bender, J. 365 (2003) 13
- Bora, S., *see* Alam, R. 364 (2003) 189
- Bora, S., *see* Alam, R. 368 (2003) 329
- Borovićanin, B., *see* Petrović, M. 380 (2004) 173

- Bortoletti, A. and C. Di Fiore, On a set of matrix algebras related to discrete Hartley-type transforms 366 (2003) 65
- Böttcher, A., M. Embree and V.I. Sokolov, On large Toeplitz band matrices with an uncertain block 366 (2003) 87
- Böttcher, A., *see* Bini, D.A. 366 (2003) 25
- Bourin, J.-C., Total dilations 368 (2003) 159
- Bourin, J.-C., Total dilations II 374 (2003) 19
- Brenner, S., On the kernel of an irreducible map 365 (2003) 91
- Brenner, S., M.C.R. Butler and A.D. King, Irreducible maps and bilinear forms 365 (2003) 99
- Brezinski, C. and M. Redivo Zaglia, A Schur complement approach to a general extrapolation algorithm 368 (2003) 279
- Brieden, A. and S. Cokus, On the hardness of efficiently approximating maximal non- L submatrices 377 (2004) 195
- Brualdi, R.A., Linear preservers and diagonal hypergraphs 373 (2003) 51
- Brualdi, R.A. and G. Dahl, Majorization-constrained doubly stochastic matrices 361 (2003) 75
- Brualdi, R.A. and G. Dahl, Matrices of zeros and ones with given line sums and a zero block 371 (2003) 191
- Brüstle, T., On positive roots of pg-critical algebras 365 (2003) 107
- Brüstle, T. and V.V. Sergeichuk, Estimate of the number of one-parameter families of modules over a tame algebra 365 (2003) 115
- Bunch, J.R., R.C. Le Borne and I.K. Proudler, Applying numerical linear algebra techniques to analyzing algorithms in signal processing 361 (2003) 133
- Butkovič, P., Max-algebra: the linear algebra of combinatorics? 367 (2003) 313
- Butler, M.C.R., *see* Brenner, S. 365 (2003) 99
- Cachafeiro, A., F. Marcellán and C. Pérez, Lebesgue perturbation of a quasi-definite Hermitian functional. The positive definite case 369 (2003) 235
- Cai, J.-L. and B.-Y. Wang, The characterization of symmetric primitive matrices with exponent $n - 1$ 364 (2003) 135
- Cai, M.-C. and X.-Q. Jin, A note on T. Chan's preconditioner 376 (2004) 283
- Calvetti, D. and L. Reichel, Pole placement preconditioning 366 (2003) 99
- Calvetti, D., L. Reichel and A. Shuibi, Enriched Krylov subspace methods for ill-posed problems 362 (2003) 257
- Campoamor, R., *see* Bermúdez, J. 367 (2003) 185
- Campoamor, R., *see* Bermúdez, J.M.A. 367 (2003) 193
- Campoamor-Stursberg, R., A graph theoretical determination of solvable complete rigid Lie algebras 372 (2003) 53
- Cantero, M.J., L. Moral and L. Velázquez, Five-diagonal matrices and zeros of orthogonal polynomials on the unit circle 362 (2003) 29
- Cao, C.-g. and X. Zhang, Additive rank-one preserving surjections on symmetric matrix spaces 362 (2003) 145
- Cao, H.-x., *see* Ren, F.-G. 371 (2003) 103
- Cao, W. and X. Wang, Friedland–Hersonsky problem for matrix algebra 372 (2003) 67
- Carriegos, M.V. and M.I. García-Planas, On matrix inverses modulo a subspace 379 (2004) 229
- Casas, F., *see* Blanes, S. 378 (2004) 135
- Casciola, G., F. Fabbri and L.B. Montefusco, An application of fast factorization algorithms in Computer Aided Geometric Design 366 (2003) 121
- Catalisano, M.V., A.V. Geramita and A. Gimigliano, Erratum to: “Ranks of tensors, secant varieties of Segre varieties and fat points” [Linear Algebra Appl. 355 (2002) 263–285] 367 (2003) 347
- Cavazos-Cadena, R., An alternative derivation of Birkhoff's formula for the contraction coefficient of a positive matrix 375 (2003) 291
- Chalmers, B.L., M.P. Prophet and J.M. Ribando, Simplicial cones and the existence of shape-preserving cyclic operators 375 (2003) 157
- Chan, R.H., T.F. Chan, L. Shen and Z. Shen, Wavelet deblurring algorithms for spatially varying blur from high-resolution image reconstruction 366 (2003) 139
- Chan, T.F., *see* Chan, R.H. 366 (2003) 139
- Chang, A. and Q. Huang, Ordering trees by their largest eigenvalues 370 (2003) 175
- Chang, A. and F. Tian, On the spectral radius of unicyclic graphs with perfect matchings 370 (2003) 237
- Chen, G.-N., *see* Hu, Y.-J. 380 (2004) 227
- Chen, M.-Q. and X. Li, An estimation of the spectral radius of a product of block matrices 379 (2004) 267
- Chen, S., A lower bound for the minimum eigenvalue of the Hadamard product of matrices 378 (2004) 159

- Chen, S., Some determinantal inequalities for Hadamard product of matrices 368 (2003) 99
- Chen, T., *see* Qiu, L. 379 (2004) 345
- Cheng, M.-y., *see* Zhang, X. 370 (2003) 163
- Cheng, S. and Y. Tian, Two sets of new characterizations for normal and EP matrices 375 (2003) 181
- Cheon, G.-S., S.-G. Hwang, S.-H. Rim, B.L. Shader and S.-Z. Song, Sparse orthogonal matrices 373 (2003) 211
- Cheon, G.-S., S.-G. Hwang, S.-H. Rim and S.-Z. Song, Matrices determined by a linear recurrence relation among entries 373 (2003) 89
- Cheon, G.-S., S.-G. Hwang, B.L. Shader and S.-Z. Song, Permanents of woven matrices 364 (2003) 223
- Cheon, G.-S., *see* Song, S.-Z. 373 (2003) 197
- Ching, W.-K., *see* Lin, F.-R. 370 (2003) 269
- Cho, H.H. and S.-R. Kim, Factorizations of matrices over semirings 373 (2003) 289
- Choi, M.-D. and C.-K. Li, Norm bounds for summation of two normal matrices 379 (2004) 137
- Chooi, W.L. and M.H. Lim, Some linear preserver problems on block triangular matrix algebras 370 (2003) 25
- Chooi, W.L., M.H. Lim and P. Šemrl, Adjacency preserving maps on upper triangular matrix algebras 367 (2003) 105
- Chu, E.K.-w. and W.-W. Lin, Perturbation of eigenvalues for periodic matrix pairs via the Bauer–Fike theorems 378 (2004) 183
- Chu, M.T., F. Diele and I. Sgura, Gradient flow methods for matrix completion with prescribed eigenvalues 379 (2004) 85
- Chu, M.T., R.E. Funderlic and R.J. Plemmons, Structured low rank approximation 366 (2003) 157
- Chu, T.H., On semimonotone matrices with nonnegative principal minors 367 (2003) 147
- Coffman, A., Real congruence of complex matrix pencils and complex projections of real Veronese varieties 370 (2003) 41
- Cohen, G., S. Gaubert and J.-P. Quadrat, Duality and separation theorems in idempotent semimodules 379 (2004) 395
- Cokus, S., *see* Brieden, A. 377 (2004) 195
- Colombo, J. and P. Koshlukov, Central polynomials in the matrix algebra of order two 377 (2004) 53
- Compta, A., J. Ferrer and M. Peña, Dimension of the orbit of marked subspaces 379 (2004) 239
- Compta, A., J. Ferrer and F. Puerta, Miniversal deformations of marked matrices 361 (2003) 181
- Cooke, R., *see* Kurowicka, D. 372 (2003) 225
- Correa, I., I.R. Hentzel and L.A. Peresi, On the solvability of the commutative power-associative nilalgebras of dimension 6 369 (2003) 185
- Cossi, L., *see* Oliveira, V.A. 369 (2003) 203
- Cravo, G. and F.C. Silva, Eigenvalues of matrices with several prescribed blocks, II 364 (2003) 81
- Cravo, G. and F.C. Silva, The number of non-constant invariant polynomials of matrices with several prescribed blocks 368 (2003) 107
- Cui, J., M. Guo and J. Hou, Rank-1 nilpotency linear preservers on nest algebras 377 (2004) 267
- Cui, J., *see* Hou, J. 369 (2003) 263
- Dahl, G., The doubly graded matrix cone and Ferrers matrices 368 (2003) 171
- Dahl, G., *see* Brualdi, R.A. 361 (2003) 75
- Dahl, G., *see* Brualdi, R.A. 371 (2003) 191
- Dai, H., *see* Xie, H. 374 (2003) 143
- Damm, T., Minimal representations of inverted Sylvester and Lyapunov operators 363 (2003) 35
- Damm, T. and D. Hinrichsen, Newton's method for concave operators with resolvent positive derivatives in ordered Banach spaces 363 (2003) 43
- da Providência Jr., J., *see* Bebiani, N. 376 (2004) 265
- Das, K.Ch., A characterization on graphs which achieve the upper bound for the largest Laplacian eigenvalue of graphs 376 (2004) 173
- Das, K.ch., An improved upper bound for Laplacian graph eigenvalues 368 (2003) 269
- Davidson, M.G., *see* Adkins, W.A. 371 (2003) 147
- Dax, A., The adventures of a simple algorithm 361 (2003) 41
- de la Peña, J.A., Periodic Coxeter matrices 365 (2003) 135
- Del Corso, G.M., *see* Accettella, C.J. 366 (2003) 5
- de Lima, T.P., *see* Silva, M.S. 364 (2003) 281
- Detle, H. and W.J. Studden, Quadrature formulas for matrix measures—a geometric approach 364 (2003) 33
- De Vivo, C., *see* Barioli, F. 374 (2003) 107

- de Werra, D., Partitioning the edge set of a bipartite graph into chain packings: complexity of some variations 368 (2003) 315
- Dias da Silva, J.A. and H. Godinho, Critical polynomials related to generalized derivations 370 (2003) 315
- Di Benedetto, F., The m th difference operator applied to L^2 functions on a finite interval 366 (2003) 173
- Diele, F. and I. Sgura, Centrosymmetric isospectral flows and some inverse eigenvalue problems 366 (2003) 199
- Diele, F., *see* Chu, M.T. 379 (2004) 85
- Di Fiore, C., F. Lepore and P. Zellini, Hartley-type algebras in displacement and optimization strategies 366 (2003) 215
- Di Fiore, C., *see* Bortoletti, A. 366 (2003) 65
- Dijkma, A., *see* Alpay, D. 369 (2003) 113
- Ding, J., New perturbation results on pseudo-inverses of linear operators in Banach spaces 362 (2003) 229
- Ding, J., L.R. Hitt and X.-M. Zhang, Markov chains and dynamic geometry of polygons 367 (2003) 255
- Dlab, V. and P. Lakatos, On spectral radii of Coxeter transformations 365 (2003) 143
- Dolinar, G., Maps on matrix algebras preserving idempotents 371 (2003) 287
- Domokos, M., On the dimension of faithful modules over finite dimensional basic algebras 365 (2003) 155
- Došlý, O., R. Hilscher and V. Zeidan, Nonnegativity of discrete quadratic functionals corresponding to symplectic difference systems 375 (2003) 21
- Draper, C., *see* Benito, P. 371 (2003) 333
- Dräxler, P., Tame biextensions of derived tame hereditary algebras 365 (2003) 159
- Dreier, D., *see* Harper, L.H. 368 (2003) 209
- Drensky, V., *see* Bahturin, Yu.A. 369 (2003) 95
- Dreyfus, T., T. Eisenberg and F. Uhlig, Report on the educational activities during the 9th ILAS Conference at Haifa, June 2001 361 (2003) 23
- Driessel, K.R., On computing canonical forms using flows 379 (2004) 353
- Drozd, J., *see* Happel, D. 365 (2003) 1
- Drton, M. and U. Schwingenschlögl, Surface volumes of rounding polytopes 378 (2004) 71
- Du, H.-K., *see* Ren, F.-G. 371 (2003) 103
- Du, S. and J. Hou, Similarity invariant real linear subspaces and similarity preserving additive maps 377 (2004) 141
- Du, S.-F., J.H. Kwak and M.-Y. Xu, Linear criteria for lifting automorphisms of elementary abelian regular coverings 373 (2003) 101
- Dubi, C., *see* Alpay, D. 371 (2003) 277
- Durán Díaz, R., J. Muñoz Masqué and A. Peinado Domínguez, Classifying quadratic maps from plane to plane 364 (2003) 1
- Dvorsky, A., Index of parabolic and seaweed subalgebras of \mathfrak{so}_n 374 (2003) 127
- Egleston, P.D., T.D. Lenker and S.K. Narayan, The nonnegative inverse eigenvalue problem 379 (2004) 475
- Eidelman, Y. and I. Gohberg, Fast inversion algorithms for a class of structured operator matrices 371 (2003) 153
- Eisenberg, T., *see* Dreyfus, T. 361 (2003) 23
- Elduque, A., *see* Benito, P. 371 (2003) 333
- El Kahoui, M., Subresultants and locally nilpotent derivations 380 (2004) 253
- Elman, H., *see* Zavorin, I. 367 (2003) 165
- Elsner, L. and D. Hershkowitz, On the spectra of close-to-Schwarz matrices 363 (2003) 81
- Elsner, L., A. Frommer, R. Nabben, H. Schneider and D.B. Szyld, Conditions for strict inequality in comparisons of spectral radii of splittings of different matrices 363 (2003) 65
- Elsner, L., D.D. Olesky and P. van den Driessche, Low rank perturbations and the spectrum of a tridiagonal sign pattern 374 (2003) 219
- Elsner, L., *see* Berman, A. 361 (2003) 1
- Embree, M., *see* Böttcher, A. 366 (2003) 87
- Escobar, C.A., J. Martínez-Bernal and R.H. Villarreal, Relative volumes and minors in monomial subrings 374 (2003) 275
- Fabbri, F., *see* Casciola, G. 366 (2003) 121
- Faber, V., A. Greenbaum and D.E. Marshall, The polynomial numerical hulls of Jordan blocks and related matrices 374 (2003) 231
- Fagnani, F. and S. Zampieri, Minimal and systematic convolutional codes over finite Abelian groups 378 (2004) 31
- Fallat, S.M., S. Kirkland and S. Pati, On graphs with algebraic connectivity equal to minimum edge density 373 (2003) 31
- Fan, J., Determinants and multiplicative functionals on quaternion matrices 369 (2003) 193
- Fan, Y.-Z., On spectral integral variations of mixed graphs 374 (2003) 307
- Fanaï, H.-R., On ray-nonsingular matrices 376 (2004) 125
- Fanaï, H.-R., *see* Akbari, S. 375 (2003) 245

- Farebrother, R.W., J. Groß and S.-O. Troschke, Matrix representation of quaternions 362 (2003) 251
- Farenick, D.R. and B.A.F. Pidkowich, The spectral theorem in quaternions 371 (2003) 75
- Fassbender, H. and K.D. Ikramov, Computing matrix-vector products with centrosymmetric and centrohermitian matrices 364 (2003) 235
- Feldmann, S., P. Lang and D. Prätzel-Wolters, Parameter influence on the zeros of network determinants 371 (2003) 125
- Feng, B.Q., Equivalence constants for certain matrix norms 374 (2003) 247
- Fernández, V., *see* Baragaña, I. 379 (2004) 201
- Fernández-Merchant, S., *see* Ábrego, B.M. 374 (2003) 175
- Fernando, K.V., Accurate ordering of eigenvectors and singular vectors without eigenvalues and singular values 374 (2003) 1
- Ferrer, J., *see* Compta, A. 361 (2003) 181
- Ferrer, J., *see* Compta, A. 379 (2004) 239
- Fiedler, M., A note on companion matrices 372 (2003) 325
- Fiedler, M., Basic matrices 373 (2003) 143
- Fiedler, M., Moore–Penrose biorthogonal systems in Euclidean spaces 362 (2003) 137
- Fiedler, M. and Z. Vavřín, Generalized Hessian matrices 380 (2004) 95
- Finet, C. and H. Queffelec, Numerical range of composition operators on a Hilbert space of Dirichlet series 377 (2004) 1
- Fischer, B. and J. Modersitzki, A unified approach to fast image registration and a new curvature based registration technique 380 (2004) 107
- Fischer, P. and J.D. Stegeman, Fractional Hadamard powers of positive semidefinite matrices 371 (2003) 53
- Forbes, J.F., *see* Kozeratska, L. 378 (2004) 203
- Förster, K.-H. and B. Nagy, On spectra of expansion graphs and matrix polynomials 363 (2003) 89
- Freiling, G. and A. Hochhaus, On a class of rational matrix differential equations arising in stochastic control 379 (2004) 43
- Freitas, P.J. and S. Friedland, Revisiting the Siegel upper half plane II 376 (2004) 45
- Freitas, P.J., *see* Friedland, S. 376 (2004) 1
- Freitas, P.J., *see* Friedland, S. 376 (2004) 19
- Friedland, S. and P.J. Freitas, p -Metrics on $GL(n, \mathbb{C})/U_n$ and their Busemann compactifications 376 (2004) 1
- Friedland, S. and P.J. Freitas, Revisiting the Siegel upper half plane I 376 (2004) 19
- Friedland, S., *see* Freitas, P.J. 376 (2004) 45
- Fritzsche, B., B. Kirstein and A. Lasarow, On a moment problem for rational matrix-valued functions 372 (2003) 1
- Frommer, A., V. Mehrmann and R. Nabben, Special section dedicated to the GAMM workshop Applied and Numerical Linear Algebra with special emphasis on Numerical Methods for Structured and Random Matrices 380 (2004) 1
- Frommer, A., *see* Elsner, L. 363 (2003) 65
- Fujii, J.I., Y. Seo and M. Tominaga, Kantorovich type operator inequalities via the Specht ratio 377 (2004) 69
- Funderlic, R.E., *see* Chu, M.T. 366 (2003) 157
- Furtado, S. and C.R. Johnson, Congruential automorphism groups of general matrices 376 (2004) 291
- Furuta, T., Operator inequalities associated with $A \log A$ via Specht ratio 375 (2003) 251
- Furuta, T. and M. Giga, A complementary result of Kantorovich type order preserving inequalities by Mićić–Pečarić–Seo 369 (2003) 27
- Gaiduk, T.N. and V.V. Sergeichuk, Generic canonical form of pairs of matrices with zeros 380 (2004) 241
- Gallivan, K., A. Vandendorpe and P. Van Dooren, Model reduction via truncation: an interpolation point of view 375 (2003) 115
- Gan, T.-B. and T.-Z. Huang, Simple criteria for nonsingular H-matrices 374 (2003) 317
- Gao, H., *see* Liu, X.-G. 368 (2003) 83
- Gao, Y., Lattices generated by orbits of subspaces under finite singular unitary group and its characteristic polynomials 368 (2003) 243
- García-Planas, M.I., *see* Carriegos, M.V. 379 (2004) 229
- Garloff, J., Intervals of almost totally positive matrices 363 (2003) 103
- Gatica, M.A. and M.J. Redondo, Hochschild cohomology of incidence algebras as one-point extensions 365 (2003) 169
- Gau, H.-L. and P.Y. Wu, Condition for the numerical range to contain an elliptic disc 364 (2003) 213
- Gau, H.-L. and P.Y. Wu, Finite Blaschke products of contractions 368 (2003) 359
- Gaubert, S., *see* Cohen, G. 379 (2004) 395
- Gavalec, M., The general trapezoidal algorithm for strongly regular max–min matrices 369 (2003) 319
- Gavalec, M. and J. Plávka, Strong regularity of matrices in general max–min algebra 371 (2003) 241

- Gelonch, J. and C.R. Johnson, Generalization of Flanders' theorem to matrix triples 380 (2004) 151
- Gemignani, L., A superfast solver for Sylvester's resultant linear systems generated by a stable and an anti-stable polynomial 366 (2003) 233
- Geramita, A.V., *see* Catalisano, M.V. 367 (2003) 347
- Gewurz, D.A., Enumeration of orbits on cycles for linear and affine groups 368 (2003) 117
- Giga, M., *see* Furuta, T. 369 (2003) 27
- Gimigliano, A., *see* Catalisano, M.V. 367 (2003) 347
- Godinho, H., *see* Dias da Silva, J.A. 370 (2003) 315
- Goebel, R.G., *see* Kozeratska, L. 378 (2004) 203
- Gohberg, I., *see* Eidelman, Y. 371 (2003) 153
- Goldberg, F., On completely positive graphs and their complements 371 (2003) 45
- Goldberg, M., *see* Berman, A. 361 (2003) 1
- Goldberger, A. and M. Neumann, Multilinear functional inequalities involving permanents, determinants, and other multilinear functions of nonnegative matrices and M -matrices 369 (2003) 295
- Goodson, G.R., R.A. Horn and D.I. Merino, Quasi-real normal matrices and eigenvalue pairings 369 (2003) 279
- Gowda, M.S., Y. Song and G. Ravindran, On some interconnections between strict monotonicity, globally uniquely solvable, and P properties in semidefinite linear complementarity problems 370 (2003) 355
- Greenbaum, A., *see* Faber, V. 374 (2003) 231
- Groß, J., *see* Farebrother, R.W. 362 (2003) 251
- Gu, M., *see* Miranian, L. 367 (2003) 1
- Gueudet-Chartier, G., Should we teach linear algebra through geometry? 379 (2004) 491
- Guglielmi, N. and M. Zennaro, On the limit products of a family of matrices 362 (2003) 11
- Gunnlaugsdóttir, E., Monoidal structure of the category of u_q^+ -modules 365 (2003) 183
- Guo, J.-M., On the Laplacian spectral radius of a tree 368 (2003) 379
- Guo, J.-M., The limit points of Laplacian spectra of graphs 362 (2003) 121
- Guo, J.-M. and S.-W. Tan, A note on the second largest eigenvalue of a tree with perfect matchings 380 (2004) 125
- Guo, M., *see* Cui, J. 377 (2004) 267
- Gutkin, E., E.A. Jonckheere and M. Karow, Convexity of the joint numerical range: topological and differential geometric viewpoints 376 (2004) 143
- Guu, S.-M., *see* Lur, Y.-Y. 367 (2003) 37
- Hachez, Y. and P. Van Dooren, Elliptic and hyperbolic quadratic eigenvalue problems and associated distance problems 371 (2003) 31
- Hadjidimos, A., D. Noutsos and M. Tzoumas, More on modifications and improvements of classical iterative schemes for M -matrices 364 (2003) 253
- Hadwin, D., D.R. Larson and D. Timotin, Approximation theory and matrix completions 377 (2004) 165
- Haemers, W.H., *see* van Dam, E.R. 373 (2003) 241
- Han, L., M. Neumann and J. Xu, On the roots of certain polynomials arising from the analysis of the Nelder–Mead simplex method 363 (2003) 109
- Han, Y. and M. Liu, Regular points in system spaces 365 (2003) 201
- Hanna, L.A.-M., On the classification of the Lie algebras L_r^s 370 (2003) 251
- Happel, D., C.M. Ringel and J. Drozd, Preface 365 (2003) 1
- Harcharras, A., *see* Banks, W. 362 (2003) 275
- Harper, L.H. and D. Dreier, The edge-isoperimetric problem on the 600-vertex regular solid 368 (2003) 209
- Hasanov, V.I., I.G. Ivanov and F. Uhlig, Improved perturbation estimates for the matrix equations $X \pm A^* X^{-1} A = Q$ 379 (2004) 113
- Hasenberg, L., *see* Lenzing, H. 365 (2003) 279
- Hauke, J., *see* Baksalary, J.K. 379 (2004) 277
- Haukkanen, P., *see* Korkee, I. 372 (2003) 127
- Haviv, M., *see* Avrachenkov, K.E. 369 (2003) 1
- He, J.-L., *see* Shao, J.-Y. 373 (2003) 223
- Heinig, G. and K. Rost, Centrosymmetric and centro-skewsymmetric Toeplitz-plus-Hankel matrices and Bezoutians 366 (2003) 257
- Heinig, G., *see* Bini, D.A. 366 (2003) 1
- Heinig, G., *see* Van Barel, M. 366 (2003) 441
- Hemasinha, R., J.R. Weaver, S.J. Kirkland and J.L. Stuart, Properties of the Brualdi–Li tournament matrix 361 (2003) 63
- Hentzel, I.R., *see* Correa, I. 369 (2003) 185
- Hermida-Alonso, J.A. and M.T. Trobajo, The dynamic feedback equivalence over principal ideal domains 368 (2003) 197
- Hershkowitz, D. and N. Keller, Positivity of principal minors, sign symmetry and stability 364 (2003) 105

- Hershkowitz, D., J.J. McDonald and R. Nabben, Preface 363 (2003) 1
- Hershkowitz, D., *see* Elsner, L. 363 (2003) 81
- Herzog, G., Generalized M -matrices and ordered Banach algebras 363 (2003) 125
- Hiai, F. and X. Zhan, Submultiplicativity vs subadditivity for unitarily invariant norms 377 (2004) 155
- Hill, R.D., *see* Skoug, M.J. 367 (2003) 291
- Hille, L., Quivers, cones and polytopes 365 (2003) 215
- Hille, L. and G. Röhrle, Variation on a theme of Richardson 365 (2003) 239
- Hilscher, R. and V. Zeidan, Symplectic difference systems: variable stepsize discretization and discrete quadratic functionals 367 (2003) 67
- Hilscher, R., *see* Došlý, O. 375 (2003) 21
- Hinrichsen, D., *see* Damm, T. 363 (2003) 43
- Hitt, L.R., *see* Ding, J. 367 (2003) 255
- Ho, M.C., A rough estimate for the spectral radius of the sampling operator 375 (2003) 51
- Hochhaus, A., *see* Freiling, G. 379 (2004) 43
- Hochstenbach, M.E. and B. Plestenjak, Backward error, condition numbers, and pseudospectra for the multiparameter eigenvalue problem 375 (2003) 63
- Hogben, L., Matrix completion problems for pairs of related classes of matrices 373 (2003) 13
- Holmes, R.B. and V.I. Paulsen, Optimal frames for erasures 377 (2004) 31
- Holtz, O., Hermite–Biehler, Routh–Hurwitz, and total positivity 372 (2003) 105
- Horn, R.A. and G.G. Piepmeyer, Two applications of the theory of primary matrix functions 361 (2003) 99
- Horn, R.A., *see* Goodson, G.R. 369 (2003) 279
- Hou, J. and J. Cui, Rank-1 preserving linear maps on nest algebras 369 (2003) 263
- Hou, J., *see* Cui, J. 377 (2004) 267
- Hou, J., *see* Du, S. 377 (2004) 141
- Hou, X.-D., Elementary divisors of tensor products and p -ranks of binomial matrices 374 (2003) 255
- Hu, X.-y., *see* Peng, Z.-y. 362 (2003) 191
- Hu, X.-y., *see* Peng, Z.-y. 375 (2003) 147
- Hu, X.-Y., *see* Zhou, F.-Z. 364 (2003) 147
- Hu, Y.-J. and G.-N. Chen, A unified treatment for the matrix Stieltjes moment problem 380 (2004) 227
- Huang, Q., *see* Chang, A. 370 (2003) 175
- Huang, T.-Z., *see* Gan, T.-B. 374 (2003) 317
- Huang, Y., *see* Liu, J. 378 (2004) 231
- Hwang, S.-G. and E.-Y. Lee, Permanents of doubly stochastic matrices with diagonal submatrices of fixed order 376 (2004) 97
- Hwang, S.-G. and S.-S. Pyo, The inverse eigenvalue problem for symmetric doubly stochastic matrices 379 (2004) 77
- Hwang, S.-G., I.-P. Kim, S.-J. Kim and X.-D. Zhang, Tight sign-central matrices 371 (2003) 225
- Hwang, S.-G., A.R. Kräuter, B.L. Shader and J.-Y. Shao, Preface 373 (2003) 1
- Hwang, S.-G., *see* Ahmadi, M.H. 370 (2003) 15
- Hwang, S.-G., *see* Cheon, G.-S. 364 (2003) 223
- Hwang, S.-G., *see* Cheon, G.-S. 373 (2003) 89
- Hwang, S.-G., *see* Cheon, G.-S. 373 (2003) 211
- Hwang, S.-G., *see* Song, S.-Z. 373 (2003) 197
- Ikramov, K.D., *see* Fassbender, H. 364 (2003) 235
- Ito, M., H. Nakazato, K. Okubo and T. Yamazaki, On generalized numerical range of the Aluthge transformation 370 (2003) 147
- Ivanov, I.G., *see* Hasanov, V.I. 379 (2004) 113
- Jain, S.K. and J. Tynan, Nonnegative matrices A with $AA^T \geq 0$ 379 (2004) 381
- Jain, S.K., *see* Bapat, R.B. 376 (2004) 69
- Jaume, D.A. and R. Puente, Representability of convex sets by analytical linear inequality systems 380 (2004) 135
- Jelonek, Z., Affine automorphisms that are isometries 364 (2003) 125
- Jenek, S., T. Szulc and F. Uhlig, On the class of D_k -symmetrizable matrices 363 (2003) 133
- Ji, G., Asymptotic similarity-preserving linear maps on $\mathcal{B}(\mathcal{H})$ 368 (2003) 371
- Jiang, C.-C. and K.-H. Kuo, On normal extensions of submatrices 370 (2003) 301
- Jiang, T. and M. Wei, On solutions of the matrix equations $X - AXB = C$ and $X - A\bar{X}B = C$ 367 (2003) 225
- Jin, X.-Q. and S.-L. Lei, Sine transform based preconditioners for solving constant-coefficient first-order PDEs 366 (2003) 283
- Jin, X.-Q., *see* Cai, M.-C. 376 (2004) 283
- Jing, W., P. Li and S. Lu, Additive mappings that preserve rank one nilpotent operators 367 (2003) 213
- Johnson, C.R., A. Leal Duarte and C.M. Saia-go, Inverse eigenvalue problems and lists of multiplicities of eigenvalues for matrices whose graph is a tree: the case of generalized stars and double generalized stars 373 (2003) 311
- Johnson, C.R., A. Leal Duarte, C.M. Saia-go, B.D. Sutton and A.J. Witt, On the relative

- position of multiple eigenvalues in the spectrum of an Hermitian matrix with a given graph 363 (2003) 147
- Johnson, C.R., *see* Furtado, S. 376 (2004) 291
- Johnson, C.R., *see* Gelonch, J. 380 (2004) 151
- Jonckheere, E.A., *see* Gutkin, E. 376 (2004) 143
- Jordán, C., J.R. Torregrosa and A.M. Urbano, Completions of partial P -matrices with acyclic or non-acyclic associated graph 368 (2003) 25
- Jung, I.B., E. Ko, C. Li and S.S. Park, Embry truncated complex moment problem 375 (2003) 95
- Kaashoek, R., *see* Bapat, R.B. 379 (2004) 1
- Kalantari, B., Semidefinite programming and matrix scaling over the semidefinite cone 375 (2003) 221
- Kalauch, A., On maximum principles for M -operators 371 (2003) 209
- Karner, H., J. Schneid and C.W. Ueberhuber, Spectral decomposition of real circulant matrices 367 (2003) 301
- Karow, M., *see* Gutkin, E. 376 (2004) 143
- Kaszkurewicz, E., *see* Bhaya, A. 374 (2003) 159
- Keller, N., *see* Hershkowitz, D. 364 (2003) 105
- Kheifets, A., *see* Bolotnikov, V. 367 (2003) 271
- Kim, I.-P., *see* Hwang, S.-G. 371 (2003) 225
- Kim, J.-S., *see* Lee, G.-Y. 373 (2003) 75
- Kim, K.H. and F.W. Roush, Inclines and incline matrices: a survey 379 (2004) 457
- Kim, S.-J., *see* Hwang, S.-G. 371 (2003) 225
- Kim, S.-R., *see* Cho, H.H. 373 (2003) 289
- King, A.D., *see* Brenner, S. 365 (2003) 99
- Kirkland, S., A note on limit points for algebraic connectivity 373 (2003) 5
- Kirkland, S., An upper bound on the Perron value of an almost regular tournament matrix 361 (2003) 7
- Kirkland, S., *see* Beasley, L.B. 373 (2003) 67
- Kirkland, S., *see* Fallat, S.M. 373 (2003) 31
- Kirkland, S.J., *see* Hemasinha, R. 361 (2003) 63
- Kirstein, B., *see* Fritzsche, B. 372 (2003) 1
- Klin, M., A. Munemasa, M. Muzychuk and P.-H. Zieschang, Directed strongly regular graphs obtained from coherent algebras 377 (2004) 83
- Knüppel, F. and K. Nielsen, k -fold anti-invariant subspaces of a linear mapping 375 (2003) 13
- Ko, E., *see* Jung, I.B. 375 (2003) 95
- Koh, Y. and S. Ree, On k -hypertournament matrices 373 (2003) 183
- Koiran, P., N. Portier and G. Villard, A rank theorem for Vandermonde matrices 378 (2004) 99
- Kolotilina, L.Yu., Generalizations of the Ostrowski–Brauer theorem 364 (2003) 65
- Korkee, I. and P. Haukkanen, On meet and join matrices associated with incidence functions 372 (2003) 127
- Koshlukov, P., *see* Colombo, J. 377 (2004) 53
- Košir, T., The Cayley–Hamilton theorem and inverse problems for multiparameter systems 367 (2003) 155
- Koukouvinos, C., E. Lappas, M. Mitrouli and J. Seberry, An algorithm to find formulae and values of minors for Hadamard matrices: II 371 (2003) 111
- Koukouvinos, C., *see* Seberry, J. 373 (2003) 297
- Kozeratska, L., J.F. Forbes, R.G. Goebel and J.V. Kresta, Perturbed cones for analysis of uncertain multi-criteria optimization problems 378 (2004) 203
- Kramar, M., Irreducible groups with submultiplicative spectrum 378 (2004) 273
- Krause, A., Algebraic computations in derived categories 365 (2003) 247
- Krause, H., A short proof for Auslander’s defect formula 365 (2003) 267
- Kräuter, A.R., *see* Hwang, S.-G. 373 (2003) 1
- Kravanja, P., *see* Van Barel, M. 366 (2003) 441
- Kresta, J.V., *see* Kozeratska, L. 378 (2004) 203
- Kruglyak, S., V. Rabanovich and Y. Samoilenko, Decomposition of a scalar matrix into a sum of orthogonal projections 370 (2003) 217
- Kumar, R., *see* Merikoski, J.K. 364 (2003) 13
- Kuo, K.-H., *see* Jiang, C.-C. 370 (2003) 301
- Kurowicka, D. and R. Cooke, A parameterization of positive definite matrices in terms of partial correlation vines 372 (2003) 225
- Kuz’mín, S.G. and A.N. Zubkov, Rings of invariants of 2×2 matrices in positive characteristic 365 (2003) 271
- Kwak, J.H., *see* Du, S.-F. 373 (2003) 101
- Kye, S.-H., Facial structures for unital positive linear maps in the two-dimensional matrix algebra 362 (2003) 57
- Lakatos, P., *see* Dlab, V. 365 (2003) 143
- Lancaster, P., A.S. Markus and F. Zhou, A wider class of stable gyroscopic systems 370 (2003) 257
- Lang, P., *see* Feldmann, S. 371 (2003) 125
- Langer, H., *see* Alpay, D. 369 (2003) 113
- Lappas, E., *see* Koukouvinos, C. 371 (2003) 111
- Larson, D.R., *see* Hadwin, D. 377 (2004) 165
- Lasarow, A., *see* Fritzsche, B. 372 (2003) 1

- László, Á., A generalization of the bounded real lemma 372 (2003) 79
- Latouche, G., *see* Bini, D.A. 366 (2003) 39
- Lavrič, B., Monotonicity and \ast -orthant-monotonicity of certain maximum norms 367 (2003) 29
- Lavrič, B., The isometries and the G -invariance of certain seminorms 374 (2003) 31
- Leal Duarte, A., *see* Johnson, C.R. 363 (2003) 147
- Leal Duarte, A., *see* Johnson, C.R. 373 (2003) 311
- Le Borne, R.C., *see* Bunch, J.R. 361 (2003) 133
- Ledoux, J. and L. Truffet, Comparison and aggregation of max-plus linear systems 378 (2004) 245
- Lee, E.-Y., *see* Hwang, S.-G. 376 (2004) 97
- Lee, G.-Y. and J.-S. Kim, The linear algebra of the k -Fibonacci matrix 373 (2003) 75
- Lee, S.-G., *see* Beasley, L.B. 367 (2003) 341
- Lee, Y.-H., *see* Beasley, L.B. 367 (2003) 341
- Lei, S.-L., *see* Jin, X.-Q. 366 (2003) 283
- Leite, R.S. and C. Tomei, Parameterization by polytopes of intersections of orbits by conjugation 361 (2003) 223
- Lemmens, B. and O. Van Gaans, Iteration of linear p -norm nonexpansive maps 371 (2003) 265
- Lemmerling, P., N. Mastronardi and S. Van Huffel, Efficient implementation of a structured total least squares based speech compression method 366 (2003) 295
- Lemos, R., *see* Bebiano, N. 376 (2004) 265
- Lenker, T. and S. Narayan, Spectrally stable matrices 362 (2003) 177
- Lenker, T.D., *see* Egleston, P.D. 379 (2004) 475
- Lenzing, H. and L. Hasenberg, Additive functions on quivers 365 (2003) 279
- Lepore, F., *see* Di Fiore, C. 366 (2003) 215
- Lerer, L., M.A. Petersen and A.C.M. Ran, Existence of minimal nonsquare J -symmetric factorizations for self-adjoint rational matrix functions 379 (2004) 159
- Li, C., *see* Jung, I.B. 375 (2003) 95
- Li, C.-K. and N.-S. Sze, Linear maps transforming H -unitary matrices 377 (2004) 111
- Li, C.-K., *see* Choi, M.-D. 379 (2004) 137
- Li, P. and J. Ma, Ring isomorphisms and pentagon subspace lattices 367 (2003) 59
- Li, P., F. Lu and J. Ma, Invertibility preserving linear maps on \mathcal{J} -subspace lattice algebras 372 (2003) 155
- Li, P., *see* Jing, W. 367 (2003) 213
- Li, P., *see* Lu, F. 371 (2003) 255
- Li, Q., *see* Wu, Y. 373 (2003) 121
- Li, R., Relationship of eigenvalues for USAOR iterative method applied to a class of p -cyclic matrices 362 (2003) 101
- Li, X., *see* Chen, M.-Q. 379 (2004) 267
- Liang, H. and F. Bai, An upper bound for the permanent of $(0, 1)$ -matrices 377 (2004) 291
- Lim, M.H., *see* Chooi, W.L. 367 (2003) 105
- Lim, M.H., *see* Chooi, W.L. 370 (2003) 25
- Lin, F.-R., W.-K. Ching and M.K. Ng, Discrete wavelet transforms for Toeplitz matrices 370 (2003) 269
- Lin, S.-H. and B.-S. Tam, Strong linear preservers of symmetric doubly stochastic or doubly substochastic matrices 379 (2004) 179
- Lin, W.-W., *see* Chu, E.K.-w. 378 (2004) 183
- Lin, Y.-F., Commutativity-preserving maps on Lie ideals of prime algebras 371 (2003) 361
- Liu, B., Generalized exponents of boolean matrices 373 (2003) 169
- Liu, G. and L.C. Robertson, Structure theorem for the rotation group over \mathbb{Q} 362 (2003) 201
- Liu, H., M. Lu and F. Tian, On the Laplacian spectral radius of a graph 376 (2004) 135
- Liu, J., Y. Huang and F. Zhang, The Schur complements of generalized doubly diagonally dominant matrices 378 (2004) 231
- Liu, M., *see* Han, Y. 365 (2003) 201
- Liu, S., *see* Baksalary, J.K. 379 (2004) 277
- Liu, W., Finite linear spaces admitting a projective group $\text{PSU}(3, q)$ with q even 374 (2003) 291
- Liu, X., *see* Baksalary, J.K. 375 (2003) 83
- Liu, X., *see* Baksalary, J.K. 375 (2003) 171
- Liu, X., *see* Baksalary, J.K. 379 (2004) 277
- Liu, X.-G. and H. Gao, On the positive definite solutions of the matrix equations $X^s \pm A^T X^{-t} A = I_n$ 368 (2003) 83
- Lockhart, J.M. and W.P. Wardlaw, Chain addition cycles 362 (2003) 1
- Loewy, R. and B.-S. Tam, CP rank of completely positive matrices of order 5 363 (2003) 161
- Loewy, R., *see* Berman, A. 361 (2003) 1
- Lu, F., Jordan triple maps 375 (2003) 311
- Lu, F. and P. Li, Jordan isomorphisms of \mathcal{J} -subspace lattice algebras 371 (2003) 255
- Lu, F., *see* Li, P. 372 (2003) 155
- Lu, F., *see* Xie, J. 378 (2004) 93
- Lu, M., *see* Liu, H. 376 (2004) 135
- Lu, S., *see* Jing, W. 367 (2003) 213
- Luo, R., *see* Zhang, X.-D. 362 (2003) 109
- Lur, Y.-Y., C.-T. Pang and S.-M. Guu, On simultaneously nilpotent fuzzy matrices 367 (2003) 37

- Ma, J., *see* Li, P. 367 (2003) 59
- Ma, J., *see* Li, P. 372 (2003) 155
- Magajna, B., M. Petkovšek and A. Turnšek, An operator inequality and self-adjointness 377 (2004) 181
- Mahmoudian, K., *see* Akbari, S. 375 (2003) 245
- Mahony, R. and P.-A. Absil, The continuous-time Rayleigh quotient flow on the sphere 368 (2003) 343
- Malyshev, A. and M. Sadkane, Condition numbers for Lanczos bidiagonalization with complete reorthogonalization 371 (2003) 315
- Malyshev, A.N. and M. Sadkane, Component-wise pseudospectrum of a matrix 378 (2004) 283
- Manzini, G., *see* Accettella, C.J. 366 (2003) 5
- Marcaida, S., *see* Amparan, A. 379 (2004) 249
- Marcellán, F., *see* Cachafeiro, A. 369 (2003) 235
- Marek, I. and P. Mayer, Convergence theory of some classes of iterative aggregation/disaggregation methods for computing stationary probability vectors of stochastic matrices 363 (2003) 177
- Markus, A.S., *see* Lancaster, P. 370 (2003) 257
- Marshall, D.E., *see* Faber, V. 374 (2003) 231
- Martínez-Bernal, J., *see* Escobar, C.A. 374 (2003) 275
- Martins, R.A. and J.F. Queiró, 2-widths of the Hölder unit balls 361 (2003) 245
- Mastronardi, N., *see* Lemmerling, P. 366 (2003) 295
- Mathias, R., *see* Bapat, R.B. 379 (2004) 1
- Matsuura, M., On the Craig–Sakamoto theorem and Olkin’s determinantal result 364 (2003) 321
- Mayer, G. and I. Warnke, On the fixed points of the interval function $[f]([x]) = [A][x] + [b]$ 363 (2003) 201
- Mayer, P., *see* Marek, I. 363 (2003) 177
- McDonald, J.J., The peripheral spectrum of a nonnegative matrix 363 (2003) 217
- McDonald, J.J., *see* Hershkowitz, D. 363 (2003) 1
- McDonald, J.J., *see* Zaslavsky, B.G. 372 (2003) 253
- McKay, B.D. and X. Wang, Asymptotic enumeration of 0–1 matrices with equal row sums and equal column sums 373 (2003) 273
- Mehl, C., V. Mehrmann and H. Xu, On doubly structured matrices and pencils that arise in linear response theory 380 (2004) 3
- Mehrmann, V., *see* Frommer, A. 380 (2004) 1
- Mehrmann, V., *see* Mehl, C. 380 (2004) 3
- Meini, B., *see* Bini, D.A. 366 (2003) 39
- Mendes Araújo, C., J.R. Torregrosa and A.M. Urbano, The N -matrix completion problem under digraphs assumptions 380 (2004) 213
- Meng, D.J., *see* Wang, L.Y. 369 (2003) 339
- Merikoski, J.K. and R. Kumar, Characterizations and lower bounds for the spread of a normal matrix 364 (2003) 13
- Merino, D.I., *see* Goodson, G.R. 369 (2003) 279
- Metelli, C., *see* Barioli, F. 374 (2003) 107
- Mills, M.A., The intersection of the similarity and conjunctivity equivalence classes 362 (2003) 129
- Miranian, L. and M. Gu, Strong rank revealing LU factorizations 367 (2003) 1
- Mitrouli, M., *see* Koukouvinos, C. 371 (2003) 111
- Mitrouli, M., *see* Seberry, J. 373 (2003) 297
- Modersitzki, J., *see* Fischer, B. 380 (2004) 107
- Molitierno, J.J. and M. Neumann, On trees with perfect matchings 362 (2003) 75
- Molnár, L., Preservers on Hilbert space effects 370 (2003) 287
- Montefusco, L.B., *see* Casciola, G. 366 (2003) 121
- Moral, L., *see* Cantero, M.J. 362 (2003) 29
- Müller, J., A note on applications of the ‘Vector Enumerator’ algorithm 365 (2003) 291
- Munemasa, A., *see* Klin, M. 377 (2004) 83
- Muñoz Masqué, J., *see* Durán Díaz, R. 364 (2003) 1
- Muzychuk, M., *see* Klin, M. 377 (2004) 83
- Nabben, R., *see* Elsner, L. 363 (2003) 65
- Nabben, R., *see* Frommer, A. 380 (2004) 1
- Nabben, R., *see* Hershkowitz, D. 363 (2003) 1
- Nagy, B., *see* Förster, K.-H. 363 (2003) 89
- Nakazato, H., *see* Ito, M. 370 (2003) 147
- Nakić, I. and K. Veselić, Wielandt and Ky-Fan theorem for matrix pairs 369 (2003) 77
- Narayan, S., *see* Lenker, T. 362 (2003) 177
- Narayan, S.K., *see* Egleston, P.D. 379 (2004) 475
- Neubauer, M.G., *see* Ábrego, B.M. 374 (2003) 175
- Neumann, M., *see* Goldberger, A. 369 (2003) 295
- Neumann, M., *see* Han, L. 363 (2003) 109
- Neumann, M., *see* Molitierno, J.J. 362 (2003) 75
- Neuwirth, S., *see* Banks, W. 362 (2003) 275
- Ng, M.K. and Z.-Z. Bai, A hybrid preconditioner of banded matrix approximation and alternating direction implicit iteration for symmetric Sinc–Galerkin linear systems 366 (2003) 317
- Ng, M.K., *see* Lin, F.-R. 370 (2003) 269
- Nielsen, K., *see* Knüppel, F. 375 (2003) 13

- Nieslony, A. and G. Steidl, Approximate factorizations of Fourier matrices with non-equispaced knots 366 (2003) 337
- Nievergelt, Y., Fitting conics of specific types to data 378 (2004) 1
- Niezgoda, M., Cases of equality for certain inequalities involving a G -doubly stochastic map 378 (2004) 167
- Nörenberg, R., From elementary calculations to Hall polynomials 365 (2003) 301
- Noutsos, D., *see* Hadjidimos, A. 364 (2003) 253
- Okoh, F. and F. Zorzitto, Commutative algebras of rational function matrices as endomorphisms of Kronecker modules I 374 (2003) 41
- Okoh, F. and F. Zorzitto, Commutative algebras of rational function matrices as endomorphisms of Kronecker modules II 374 (2003) 63
- Okoh, F. and F.A. Zorzitto, Curves arising from Kronecker modules 365 (2003) 311
- Okaç, A., Student discussions on a Linear Algebra problem in a distance-education course 379 (2004) 439
- Okubo, K., On weakly unitarily invariant norm and the Aluthge transformation 371 (2003) 369
- Okubo, K., *see* Ito, M. 370 (2003) 147
- O'Leary, D.P., Scaling symmetric positive definite matrices to prescribed row sums 370 (2003) 185
- O'Leary, D.P., *see* Zavorin, I. 367 (2003) 165
- Olesky, D.D., *see* Elsner, L. 374 (2003) 219
- Oliveira, V.A., M.C.M. Teixeira and L. Cossi, Stabilizing a class of time delay systems using the Hermite-Biehler theorem 369 (2003) 203
- O'Ryan, M. and D.B. Shapiro, Centers of higher degree forms 371 (2003) 301
- Ostrovskii, M.I., Minimal-volume projections of cubes and totally unimodular matrices 364 (2003) 91
- Ovsienko, S., Strongly nilpotent matrices and Gelfand-Zetlin modules 365 (2003) 349
- Pang, C.-T., *see* Lur, Y.-Y. 367 (2003) 37
- Park, S.S., *see* Jung, I.B. 375 (2003) 95
- Pati, S., *see* Fallat, S.M. 373 (2003) 31
- Patricio, P., The Moore-Penrose inverse of a factorization 370 (2003) 227
- Patricio, P. and R. Puystjens, Generalized invertibility in two semigroups of a ring 377 (2004) 125
- Paulsen, V.I., *see* Holmes, R.B. 377 (2004) 31
- Peña, J., A characterization of the distance to infeasibility under block-structured perturbations 370 (2003) 193
- Peña, M., *see* Compta, A. 379 (2004) 239
- Peña, M., *see* Rojo, O. 362 (2003) 293
- Peinado Domínguez, A., *see* Durán Díaz, R. 364 (2003) 1
- Peng, J. and Z.-B. Xu, A note on Söderlind's conjecture 367 (2003) 47
- Peng, Z.-y. and X.-y. Hu, The reflexive and anti-reflexive solutions of the matrix equation $AX = B$ 375 (2003) 147
- Peng, Z.-y., X.-y. Hu and L. Zhang, On the construction of a Jacobi matrix from its mixed-type eigenpairs 362 (2003) 191
- Pennacchio, M., *see* Simoncini, V. 380 (2004) 53
- Peresi, L.A., *see* Correa, I. 369 (2003) 185
- Pérez, C., *see* Cachafeiro, A. 369 (2003) 235
- Petek, T. and H. Sarria, Spectrum and commutativity preserving mappings on H_2 364 (2003) 317
- Petersen, M.A., *see* Lerer, L. 379 (2004) 159
- Petkovšek, M., *see* Magajna, B. 377 (2004) 181
- Petrović, M., B. Borovićanin and A. Torgašev, On graphs with at most three Laplacian eigenvalues greater than or equal to two 380 (2004) 173
- Phillips, D.P., Some partial inverse eigenvalue problems: recovering diagonal entries of symmetric matrices 380 (2004) 263
- Pidkowich, B.A.F., *see* Farenick, D.R. 371 (2003) 75
- Piepmeyer, G.G., *see* Horn, R.A. 361 (2003) 99
- Pierce, S., *see* Barrett, W. 368 (2003) 129
- Pinkus, A., *see* Atzmon, A. 372 (2003) 305
- Plávka, J., *see* Gavalec, M. 371 (2003) 241
- Plemmons, R.J., *see* Chu, M.T. 366 (2003) 157
- Plestenjak, B., *see* Hochstenbach, M.E. 375 (2003) 63
- Popov, A.B., *see* Arlinskiĭ, Yu.M. 370 (2003) 133
- Portier, N., *see* Koiran, P. 378 (2004) 99
- Potts, D., Fast algorithms for discrete polynomial transforms on arbitrary grids 366 (2003) 353
- Pournaki, M.R., *see* Bessenrodt, C. 370 (2003) 369
- Prätzel-Wolters, D., *see* Feldmann, S. 371 (2003) 125
- Prophet, M.P., *see* Chalmers, B.L. 375 (2003) 157
- Proudler, I.K., *see* Bunch, J.R. 361 (2003) 133
- Puente, R., *see* Jaume, D.A. 380 (2004) 135
- Puerta, F., X. Puerta and S. Tarragona, Versal deformations in orbit spaces 379 (2004) 329

- Puerta, F., *see* Compta, A. 361 (2003) 181
- Puerta, X., *see* Puerta, F. 379 (2004) 329
- Pugliese, P., On the normal matrix of the polynomial LS problem over the Chebyshev points 378 (2004) 61
- Puystjens, R., *see* Patricio, P. 377 (2004) 125
- Pyo, S.-S., *see* Hwang, S.-G. 379 (2004) 77
- Qiu, L. and T. Chen, Unitary dilation approach to contractive matrix completion 379 (2004) 345
- Quadrat, J.-P., *see* Cohen, G. 379 (2004) 395
- Queffélec, H., *see* Finet, C. 377 (2004) 1
- Queiró, J.F., *see* Martins, R.A. 361 (2003) 245
- Rabanovich, V., *see* Kruglyak, S. 370 (2003) 217
- Rachidi, M., *see* Ben Taher, R. 370 (2003) 341
- Rada, J., Characteristic polynomial of cata-condensed systems 367 (2003) 243
- Rada, J. and A. Tineo, Polygonal chains with minimal energy 372 (2003) 333
- Radjabalipour, M., Additive mappings on von Neumann algebras preserving absolute values 368 (2003) 229
- Ran, A.C.M. and M.C.B. Reurings, A non-linear matrix equation connected to interpolation theory 379 (2004) 289
- Ran, A.C.M., *see* Lerer, L. 379 (2004) 159
- Ravindran, G., *see* Gowda, M.S. 370 (2003) 355
- Redivo Zaglia, M., *see* Brezinski, C. 368 (2003) 279
- Redondo, M.J., *see* Gatica, M.A. 365 (2003) 169
- Ree, S., *see* Koh, Y. 373 (2003) 183
- Reichel, L., *see* Calvetti, D. 362 (2003) 257
- Reichel, L., *see* Calvetti, D. 366 (2003) 99
- Reifegerste, A., *see* Bessenrodt, C. 370 (2003) 369
- Ren, F.-G., H.-K. Du and H.-x. Cao, The intersection of the spectra of operator completions 371 (2003) 103
- Resta, G. and G. Sburlati, On the number of different permanents of some sparse (0,1)-circulant matrices 375 (2003) 197
- Reurings, M.C.B., *see* Ran, A.C.M. 379 (2004) 289
- Ribando, J.M., *see* Chalmers, B.L. 375 (2003) 157
- Ricard, E., *see* Banks, W. 362 (2003) 275
- Rim, S.-H., *see* Cheon, G.-S. 373 (2003) 89
- Rim, S.-H., *see* Cheon, G.-S. 373 (2003) 211
- Rim, S.-H., *see* Song, S.-Z. 373 (2003) 197
- Ringel, C.M., *see* Happel, D. 365 (2003) 1
- Robertson, L.C., *see* Liu, G. 362 (2003) 201
- Rodman, L., *see* Bolotnikov, V. 367 (2003) 271
- Rodriguez, G., *see* van der Mee, C.V.M. 366 (2003) 459
- Röhrle, G., *see* Hille, L. 365 (2003) 239
- Rojo, O. and M. Peña, A note on the integer eigenvalues of the Laplacian matrix of a balanced binary tree 362 (2003) 293
- Rojo, O. and R.L. Soto, Existence and construction of nonnegative matrices with complex spectrum 368 (2003) 53
- Rost, K., *see* Heinig, G. 366 (2003) 257
- Roush, F.W., *see* Kim, K.H. 379 (2004) 457
- Rump, S.M., On P -matrices 363 (2003) 237
- Rump, S.M., Perron–Frobenius theory for complex matrices 363 (2003) 251
- Sadkane, M., *see* Malyshev, A. 371 (2003) 315
- Sadkane, M., *see* Malyshev, A.N. 378 (2004) 283
- Saigo, C.M., *see* Johnson, C.R. 363 (2003) 147
- Saigo, C.M., *see* Johnson, C.R. 373 (2003) 311
- Samoilenko, Y., *see* Kruglyak, S. 370 (2003) 217
- Santos, R., *see* Bhaya, A. 374 (2003) 159
- Sarria, H., *see* Petek, T. 364 (2003) 317
- Savchenko, S.V., On the Perron roots of principal submatrices of co-order one of irreducible nonnegative matrices 361 (2003) 257
- Sburlati, G., *see* Resta, G. 375 (2003) 197
- Schnabel, U., *see* Schwetlick, H. 371 (2003) 1
- Schneid, J., *see* Karner, H. 367 (2003) 301
- Schneider, H., *see* Elsner, L. 363 (2003) 65
- Schneider, H., *see* Tam, B.-S. 363 (2003) 295
- Schwetlick, H. and U. Schnabel, Iterative computation of the smallest singular value and the corresponding singular vectors of a matrix 371 (2003) 1
- Schwingschlögl, U., *see* Drton, M. 378 (2004) 71
- Seatzu, S., *see* van der Mee, C.V.M. 366 (2003) 459
- Seberry, J., T. Xia, C. Koukouvinos and M. Mitrouli, The maximal determinant and subdeterminants of ± 1 matrices 373 (2003) 297
- Seberry, J., *see* Koukouvinos, C. 371 (2003) 111
- Seeger, A. and M. Torki, On eigenvalues induced by a cone constraint 372 (2003) 181
- Šemrl, P., Hua’s fundamental theorems of the geometry of matrices and related results 361 (2003) 161
- Šemrl, P., *see* Chooi, W.L. 367 (2003) 105
- Seo, Y., *see* Fujii, J.I. 377 (2004) 69

- Sergeichuk, V.V., Computation of canonical matrices for chains and cycles of linear mappings 376 (2004) 235
- Sergeichuk, V.V., *see* Belitskii, G.R. 361 (2003) 203
- Sergeichuk, V.V., *see* Brüstle, T. 365 (2003) 115
- Sergeichuk, V.V., *see* Gaiduk, T.N. 380 (2004) 241
- Serra Capizzano, S., Generalized locally Toeplitz sequences: spectral analysis and applications to discretized partial differential equations 366 (2003) 371
- Serra Capizzano, S. and C. Tablino Possio, Analysis of preconditioning strategies for collocation linear systems 369 (2003) 41
- Sgura, I., *see* Chu, M.T. 379 (2004) 85
- Sgura, I., *see* Diele, F. 366 (2003) 199
- Shader, B.L., Set-systems with signed solutions 361 (2003) 121
- Shader, B.L. and S. Suwilo, Exponents of non-negative matrix pairs 363 (2003) 275
- Shader, B.L., *see* Cheon, G.-S. 364 (2003) 223
- Shader, B.L., *see* Cheon, G.-S. 373 (2003) 211
- Shader, B.L., *see* Hwang, S.-G. 373 (2003) 1
- Shan, H.-Y. and J.-Y. Shao, Matrices with totally signed powers 376 (2004) 215
- Shan, H.-Y., *see* Shao, J.-Y. 373 (2003) 223
- Shao, J.-Y., J.-L. He and H.-Y. Shan, Number of nonzero entries of S^2NS matrices and matrices with signed generalized inverses 373 (2003) 223
- Shao, J.-Y., *see* Hwang, S.-G. 373 (2003) 1
- Shao, J.-Y., *see* Shan, H.-Y. 376 (2004) 215
- Shao, J.-Y., *see* Xu, G.-H. 376 (2004) 187
- Shapiro, D.B., *see* O'Ryan, M. 371 (2003) 301
- Shen, J. and C.J. Wyels, On the number of arcs in primitive digraphs with large exponents 364 (2003) 243
- Shen, L., *see* Chan, R.H. 366 (2003) 139
- Shen, Z., *see* Chan, R.H. 366 (2003) 139
- Sherstnev, A.N., Two-dimensional reductions of the cone of positive diagonal operators in ℓ^2 370 (2003) 375
- Shi, Y., On the rank of the matrix radius of the limiting set for a singular linear Hamiltonian system 376 (2004) 109
- Shu, J. and Y. Wu, Sharp upper bounds on the spectral radius of graphs 377 (2004) 241
- Shuib, A., *see* Calvetti, D. 362 (2003) 257
- Siler, J.R., *see* Skoug, M.J. 367 (2003) 291
- Silva, F.C., *see* Aujla, J.S. 369 (2003) 217
- Silva, F.C., *see* Cravo, G. 364 (2003) 81
- Silva, F.C., *see* Cravo, G. 368 (2003) 107
- Silva, M.S. and T.P. de Lima, Looking for nonnegative solutions of a Leontief dynamic model 364 (2003) 281
- Simić, S.K., *see* Bell, F.K. 377 (2004) 249
- Simoncini, V. and M. Pennacchio, The behavior of symmetric Krylov subspace methods for solving $Mx = (M - \gamma I)v$ 380 (2004) 53
- Skoug, M.J., R.D. Hill and J.R. Siler, On a lattice of hermitian-preserving cones 367 (2003) 291
- So, W., The high road to an exponential formula 379 (2004) 69
- Sokolov, V.I., *see* Böttcher, A. 366 (2003) 87
- Song, S.-Z., S.-G. Hwang, S.-H. Rim and G.-S. Cheon, Extremes of permanents of $(0, 1)$ -matrices 373 (2003) 197
- Song, S.-Z., *see* Cheon, G.-S. 364 (2003) 223
- Song, S.-Z., *see* Cheon, G.-S. 373 (2003) 89
- Song, S.-Z., *see* Cheon, G.-S. 373 (2003) 211
- Song, Y., *see* Gowda, M.S. 370 (2003) 355
- Soto, R.L., Existence and construction of non-negative matrices with prescribed spectrum 369 (2003) 169
- Soto, R.L., *see* Rojo, O. 368 (2003) 53
- Stegeman, J.D., *see* Fischer, P. 371 (2003) 53
- Steidl, G., *see* Nieslony, A. 366 (2003) 337
- Stevanović, D., Remarks on graphs with majority of eigenvalues at most -1 367 (2003) 337
- Strašek, R., Uniform primeness of the Jordan algebra of hermitian quaternion matrices 367 (2003) 235
- Strauss, V., On the bicommutant for one type of J -symmetric nilpotent algebras in Krein spaces 372 (2003) 167
- Stuart, J., Reducible pattern k -potent ray pattern matrices 362 (2003) 87
- Stuart, J.L., *see* Hemasinha, R. 361 (2003) 63
- Studden, W.J., *see* Dette, H. 364 (2003) 33
- Sun, J.-g., Perturbation analysis of the matrix equation $X = Q + A^H(\hat{X} - C)^{-1}A$ 372 (2003) 33
- Sun, J.-g. and S.-F. Xu, Perturbation analysis of the maximal solution of the matrix equation $X + A^*X^{-1}A = P$. II 362 (2003) 211
- Sutton, B.D., *see* Johnson, C.R. 363 (2003) 147
- Suwilo, S., *see* Shader, B.L. 363 (2003) 275
- Sze, N.-S., *see* Li, C.-K. 377 (2004) 111
- Szulc, T., *see* Baksalary, J.K. 379 (2004) 303
- Szulc, T., *see* Jenek, S. 363 (2003) 133
- Szyld, D.B., *see* Elsner, L. 363 (2003) 65

- Tablino Possio, C., *see* Serra Capizzano, S. 369 (2003) 41
- Tagami, M., Symmetric association schemes attached to finite upper half planes over rings 376 (2004) 225
- Tam, B.-S. and H. Schneider, Linear equations over cones and Collatz–Wielandt numbers 363 (2003) 295
- Tam, B.-S., *see* Lin, S.-H. 379 (2004) 179
- Tam, B.-S., *see* Loewy, R. 363 (2003) 161
- Tam, T.Y., *see* Bapat, R.B. 379 (2004) 1
- Tan, S.-W., *see* Guo, J.-M. 380 (2004) 125
- Tan, V. and F. Wang, On determinant preserver problems 369 (2003) 311
- Tan, Y., On the eigenproblem of matrices over distributive lattices 374 (2003) 87
- Tang, X.M., Linear operators preserving adjoint matrix between matrix spaces 372 (2003) 287
- Tang, X.M., *see* You, H. 380 (2004) 185
- Tarragona, S., *see* Puerta, F. 379 (2004) 329
- Teixeira, M.C.M., *see* Oliveira, V.A. 369 (2003) 203
- Tian, F., *see* Chang, A. 370 (2003) 237
- Tian, F., *see* Liu, H. 376 (2004) 135
- Tian, Y., *see* Cheng, S. 375 (2003) 181
- Tilli, P., Universal bounds on the convergence rate of extreme Toeplitz eigenvalues 366 (2003) 403
- Timotin, D., *see* Hadwin, D. 377 (2004) 165
- Tineo, A., *see* Rada, J. 372 (2003) 333
- Tomei, C., *see* Leite, R.S. 361 (2003) 223
- Tominaga, M., *see* Fujii, J.I. 377 (2004) 69
- Toni, A., Lower bounds on zero–one matrices 376 (2004) 275
- Torgašev, A., *see* Petrović, M. 380 (2004) 173
- Torki, M., *see* Seeger, A. 372 (2003) 181
- Torregrosa, J.R., *see* Araújo, C.M. 372 (2003) 111
- Torregrosa, J.R., *see* Jordán, C. 368 (2003) 25
- Torregrosa, J.R., *see* Mendes Araújo, C. 380 (2004) 213
- Trench, W.F., Absolute equal distribution of families of finite sets 367 (2003) 131
- Trench, W.F., Absolute equal distribution of the spectra of Hermitian matrices 366 (2003) 417
- Trench, W.F., A note on asymptotic zero distribution of orthogonal polynomials 375 (2003) 275
- Trench, W.F., Characterization and properties of matrices with generalized symmetry or skew symmetry 377 (2004) 207
- Trench, W.F., Inverse eigenproblems and associated approximation problems for matrices with generalized symmetry or skew symmetry 380 (2004) 199
- Trenkler, G., *see* Baksalary, J.K. 372 (2003) 207
- Trent, T.T., An H^2 -corona theorem on the bi-disk for infinitely many functions 379 (2004) 213
- Trobajo, M.T., *see* Hermida-Alonso, J.A. 368 (2003) 197
- Troschke, S.-O., *see* Farebrother, R.W. 362 (2003) 251
- Truffet, L., *see* Ledoux, J. 378 (2004) 245
- Turnšek, A., *see* Magajna, B. 377 (2004) 181
- Tynan, J., *see* Bapat, R.B. 376 (2004) 69
- Tynan, J., *see* Jain, S.K. 379 (2004) 381
- Tyrtshnikov, E., Kronecker-product approximations for some function-related matrices 379 (2004) 423
- Tyrtshnikov, E., *see* Bini, D.A. 366 (2003) 1
- Tyrtshnikov, E.E. and N.L. Zamarashkin, A general equidistribution theorem for the roots of orthogonal polynomials 366 (2003) 433
- Tzoumas, M., *see* Hadjidimos, A. 364 (2003) 253
- Ueberhuber, C.W., *see* Karner, H. 367 (2003) 301
- Uhlig, F., A new unified, balanced, and conceptual approach to teaching linear algebra 361 (2003) 147
- Uhlig, F., Report on the 10th ILAS Conference “Challenges in Matrix Theory” at Auburn University in June 2002 379 (2004) 503
- Uhlig, F., *see* Bapat, R.B. 379 (2004) 1
- Uhlig, F., *see* Dreyfus, T. 361 (2003) 23
- Uhlig, F., *see* Hasanov, V.I. 379 (2004) 113
- Uhlig, F., *see* Jenek, S. 363 (2003) 133
- Urbano, A.M., *see* Araújo, C.M. 372 (2003) 111
- Urbano, A.M., *see* Jordán, C. 368 (2003) 25
- Urbano, A.M., *see* Mendes Araújo, C. 380 (2004) 213
- Van Barel, M., G. Heinig and P. Kravanja, A superfast method for solving Toeplitz linear least squares problems 366 (2003) 441
- van Dam, E.R. and W.H. Haemers, Which graphs are determined by their spectrum? 373 (2003) 241
- Vandendorpe, A., *see* Gallivan, K. 375 (2003) 115
- van den Driessche, P., *see* Elsner, L. 374 (2003) 219
- van der Holst, H., Graphs whose positive semi-definite matrices have nullity at most two 375 (2003) 1
- van der Holst, H., *see* Aigner, M. 377 (2004) 11

- van der Mee, C.V.M., S. Seatzu and G. Rodriguez, Semi-infinite multi-index perturbed block Toeplitz systems 366 (2003) 459
- van der Woude, J.W., On the existence of a common solution X to the matrix equations $A_i X B_j = C_{ij}$, $(i, j) \in \Gamma$ 375 (2003) 135
- Van Dooren, P., *see* Gallivan, K. 375 (2003) 115
- Van Dooren, P., *see* Hachez, Y. 371 (2003) 31
- Van Gaans, O., *see* Lemmens, B. 371 (2003) 265
- Van Huffel, S., *see* Lemmerling, P. 366 (2003) 295
- Varah, J.M., Positive definite Hankel matrices of minimal condition 368 (2003) 303
- Vavřín, Z., *see* Fiedler, M. 380 (2004) 95
- Velázquez, L., *see* Cantero, M.J. 362 (2003) 29
- Vera-López, A. and J.M. Arregi, Conjugacy classes in unitriangular matrices 370 (2003) 85
- Veselić, K., *see* Nakić, I. 369 (2003) 77
- Villard, G., *see* Koiran, P. 378 (2004) 99
- Villarreal, R.H., *see* Escobar, C.A. 374 (2003) 275
- Wang, B.-Y., *see* Cai, J.-L. 364 (2003) 135
- Wang, C.-L., *see* Bai, Z.-Z. 362 (2003) 237
- Wang, F., *see* Tan, V. 369 (2003) 311
- Wang, L.Y. and D.J. Meng, Some complete Lie superalgebras 369 (2003) 339
- Wang, X., *see* Cao, W. 372 (2003) 67
- Wang, X., *see* McKay, B.D. 373 (2003) 273
- Wanless, I.M., A lower bound on the maximum permanent in A_n^k 373 (2003) 153
- Wardlaw, W.P., *see* Lockhart, J.M. 362 (2003) 1
- Warnke, I., *see* Mayer, G. 363 (2003) 201
- Watkins, W., *see* Abrego, B.M. 374 (2003) 175
- Weaver, J.R., *see* Hemasinha, R. 361 (2003) 63
- Wei, M., *see* Jiang, T. 367 (2003) 225
- Winkler, J.R., A companion matrix resultant for Bernstein polynomials 362 (2003) 153
- Witt, A.J., *see* Johnson, C.R. 363 (2003) 147
- Woerdeman, H.J., The separability problem and normal completions 376 (2004) 85
- Wojciechowski, P.J., Directed maximal partial orders of matrices 375 (2003) 45
- Wu, L., *see* Zhang, Z. 364 (2003) 161
- Wu, P.Y., *see* Gau, H.-L. 364 (2003) 213
- Wu, P.Y., *see* Gau, H.-L. 368 (2003) 359
- Wu, Y. and Q. Li, An approach to solving $A^k = J - I$ 373 (2003) 121
- Wu, Y., *see* Shu, J. 377 (2004) 241
- Wyels, C.J., *see* Shen, J. 364 (2003) 243
- Xi, C.C. and D. Xiang, Cellular algebras and Cartan matrices 365 (2003) 369
- Xia, T., *see* Seberry, J. 373 (2003) 297
- Xiang, D., *see* Xi, C.C. 365 (2003) 369
- Xiang, S., On an inequality for the Hadamard product of an M -matrix or an H -matrix and its inverse 367 (2003) 17
- Xie, H. and H. Dai, On the sensitivity of multiple eigenvalues of nonsymmetric matrix pencils 374 (2003) 143
- Xie, J. and F. Lu, A note on 2-local automorphisms of digraph algebras 378 (2004) 93
- Xu, C., Completely positive matrices 379 (2004) 319
- Xu, G.-H. and J.-Y. Shao, Conditional S -matrices 376 (2004) 187
- Xu, H., An SVD-like matrix decomposition and its applications 368 (2003) 1
- Xu, H., *see* Mehl, C. 380 (2004) 3
- Xu, J., *see* Han, L. 363 (2003) 109
- Xu, M.-Y., *see* Du, S.-F. 373 (2003) 101
- Xu, S.-F., *see* Sun, J.-g. 362 (2003) 211
- Xu, Z.-B., *see* Peng, J. 367 (2003) 47
- Yamazaki, T., *see* Ando, T. 375 (2003) 299
- Yamazaki, T., *see* Ito, M. 370 (2003) 147
- You, H. and X.M. Tang, Additive preservers of rank-additivity on the spaces of symmetric and alternate matrices 380 (2004) 185
- Zaballa, I., *see* Amparan, A. 379 (2004) 249
- Zaballa, I., *see* Baragaña, I. 379 (2004) 201
- Zalar, B., On semigroups of normal matrices 368 (2003) 191
- Zamarashkin, N.L., *see* Tyrtshnikov, E.E. 366 (2003) 433
- Zampieri, S., *see* Fagnani, F. 378 (2004) 31
- Zaslavsky, B.G. and J.J. McDonald, A characterization of Jordan canonical forms which are similar to eventually nonnegative matrices with the properties of nonnegative matrices 372 (2003) 253
- Zavadskij, A., Tame equipped posets 365 (2003) 389
- Zavorin, I., D.P. O'Leary and H. Elman, Complete stagnation of GMRES 367 (2003) 165
- Zeidan, V., *see* Došlý, O. 375 (2003) 21
- Zeidan, V., *see* Hilscher, R. 367 (2003) 67
- Zellini, P., *see* Di Fiore, C. 366 (2003) 215
- Zennaro, M., *see* Guglielmi, N. 362 (2003) 11
- Zhan, X., On some matrix inequalities 376 (2004) 299
- Zhan, X., *see* Hiai, F. 377 (2004) 155
- Zhang, F., *see* Liu, J. 378 (2004) 231

- Zhang, L., *see* Peng, Z.-y. 362 (2003) 191
- Zhang, L., *see* Zhou, F.-Z. 364 (2003) 147
- Zhang, X., Linear operators that preserve pairs of matrices which satisfy extreme rank properties—a supplementary version 375 (2003) 283
- Zhang, X. and M.-y. Cheng, The rank-constrained Hermitian nonnegative-definite and positive-definite solutions to the matrix equation $AXA^* = B$ 370 (2003) 163
- Zhang, X., *see* Cao, C.-g. 362 (2003) 145
- Zhang, X.-D., Two sharp upper bounds for the Laplacian eigenvalues 376 (2004) 207
- Zhang, X.-D. and R. Luo, The Laplacian eigenvalues of mixed graphs 362 (2003) 109
- Zhang, X.-D., *see* Hwang, S.-G. 371 (2003) 225
- Zhang, X.-M., *see* Ding, J. 367 (2003) 255
- Zhang, Y., On Hermitian positive definite solutions of matrix equation $X + A^* X^{-2} A = I$ 372 (2003) 295
- Zhang, Z. and L. Wu, Optimal low-rank approximation to a correlation matrix 364 (2003) 161
- Zhou, F., A rank criterion for the order of a pole of a matrix function 362 (2003) 287
- Zhou, F., *see* Lancaster, P. 370 (2003) 257
- Zhou, F.-Z., X.-Y. Hu and L. Zhang, The solvability conditions for the inverse eigenvalue problems of centro-symmetric matrices 364 (2003) 147
- Zieschang, P.-H., *see* Klin, M. 377 (2004) 83
- Zippin, M., A characterization of the Euclidean space 361 (2003) 3
- Zorzitto, F., *see* Okoh, F. 374 (2003) 41
- Zorzitto, F., *see* Okoh, F. 374 (2003) 63
- Zorzitto, F.A., *see* Okoh, F. 365 (2003) 311
- Zubkov, A.N., *see* Kuz'min, S.G. 365 (2003) 271

